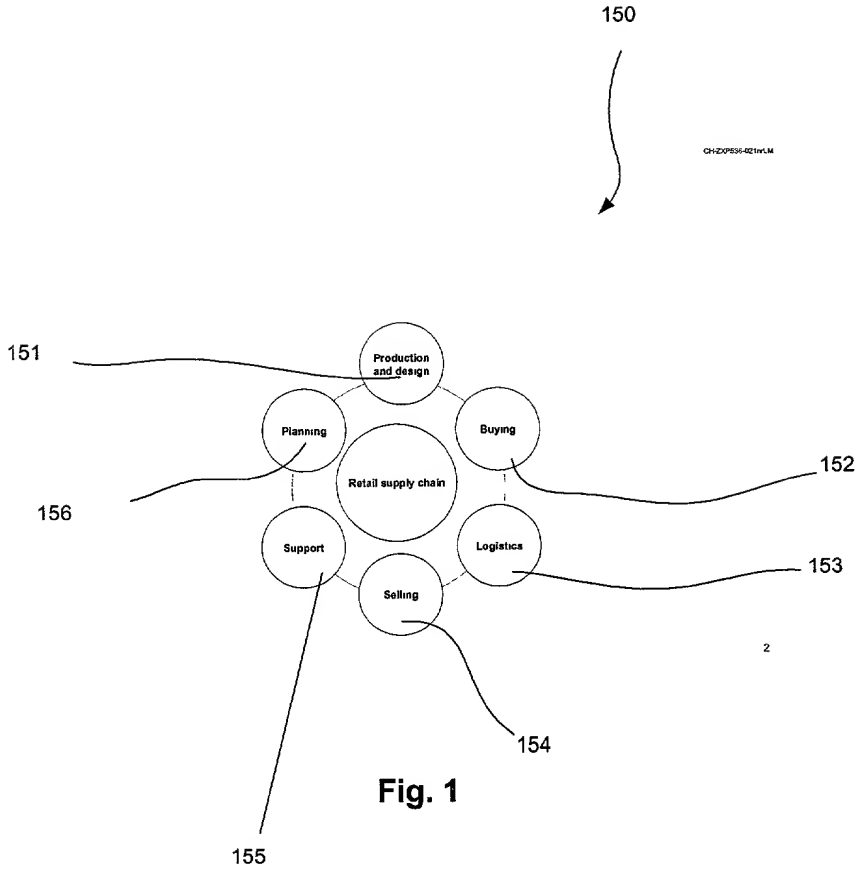

150
151
Production and design
Planning
Buying
Retail supply chain
156
152
Support
Logistics
153
Selling
154
155

Fig. 1

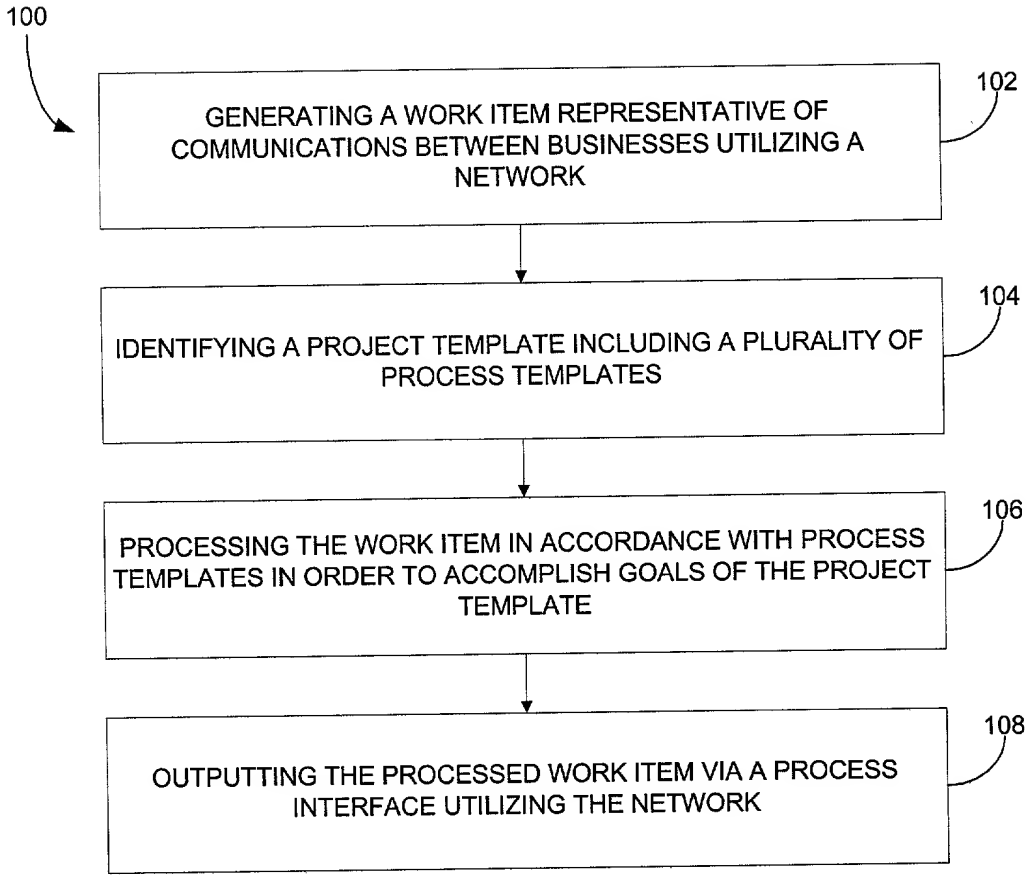

100
GENERATING A WORK ITEM REPRESENTATIVE OF COMMUNICATIONS BETWEEN BUSINESSES UTILIZING A NETWORK
102
IDENTIFYING A PROJECT TEMPLATE INCLUDING A PLURALITY OF PROCESS TEMPLATES
104
PROCESSING THE WORK ITEM IN ACCORDANCE WITH PROCESS TEMPLATES IN ORDER TO ACCOMPLISH GOALS OF THE PROJECT TEMPLATE
106
OUTPUTTING THE PROCESSED WORK ITEM VIA A PROCESS INTERFACE UTILIZING THE NETWORK
108

Fig. 1a

Docket: 8-15-5-9

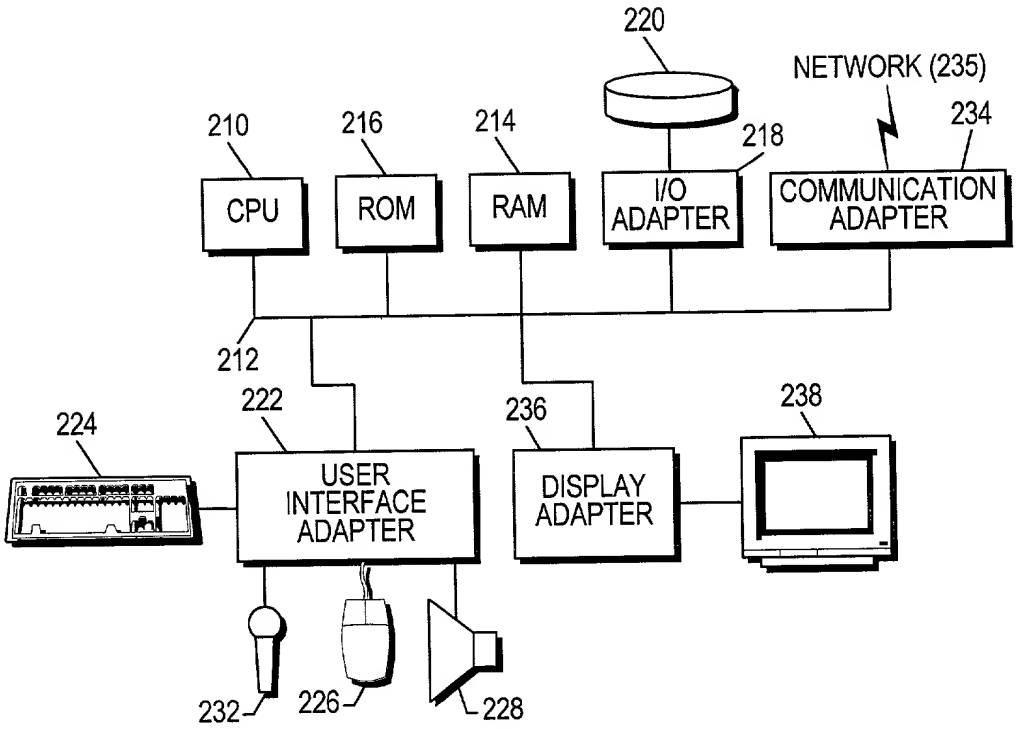


Fig. 2

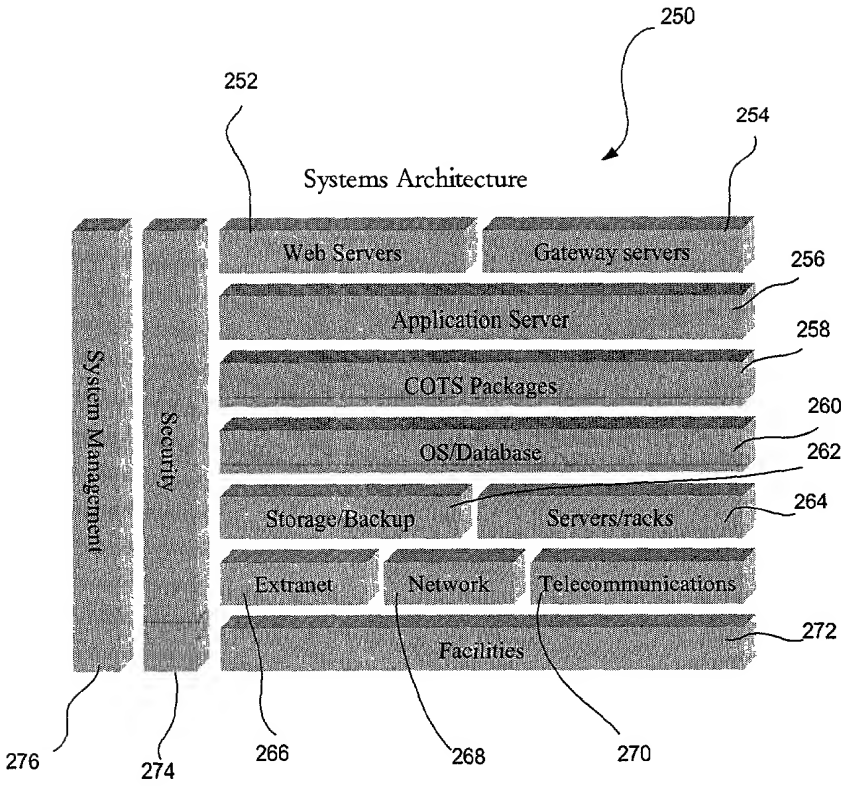

250
252
254
Systems Architecture
Web Servers
Gateway servers
256
Application Server
258
COTS Packages
260
OS/Database
262
Storage/Backup
Servers/racks
264
Extranet
Network
Telecommunications
272
Facilities
System Management
Security
276
274
266
268
270

Fig. 2b

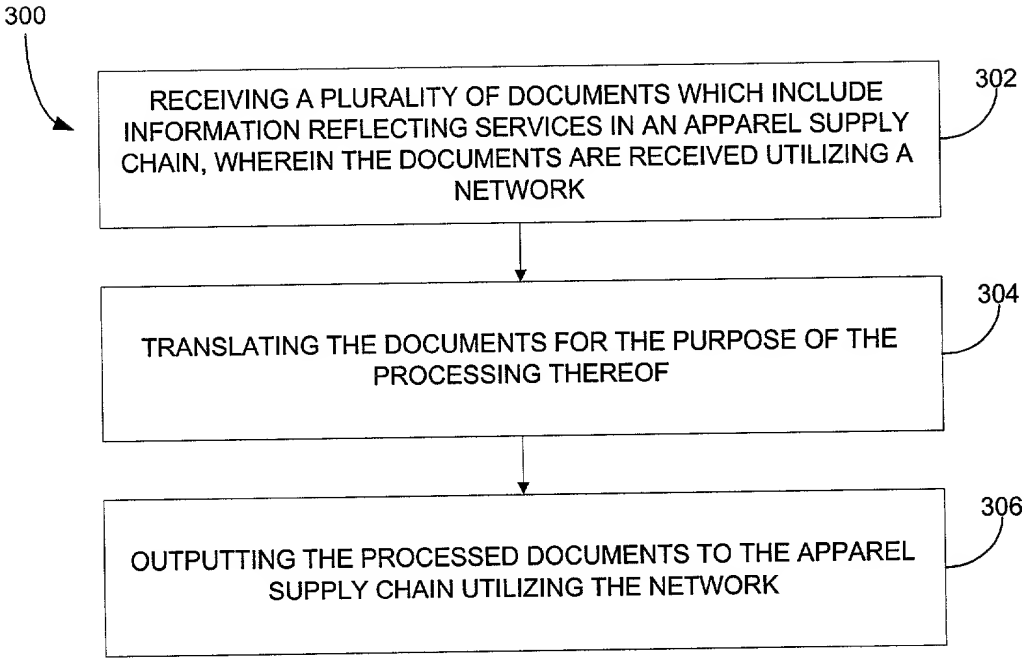
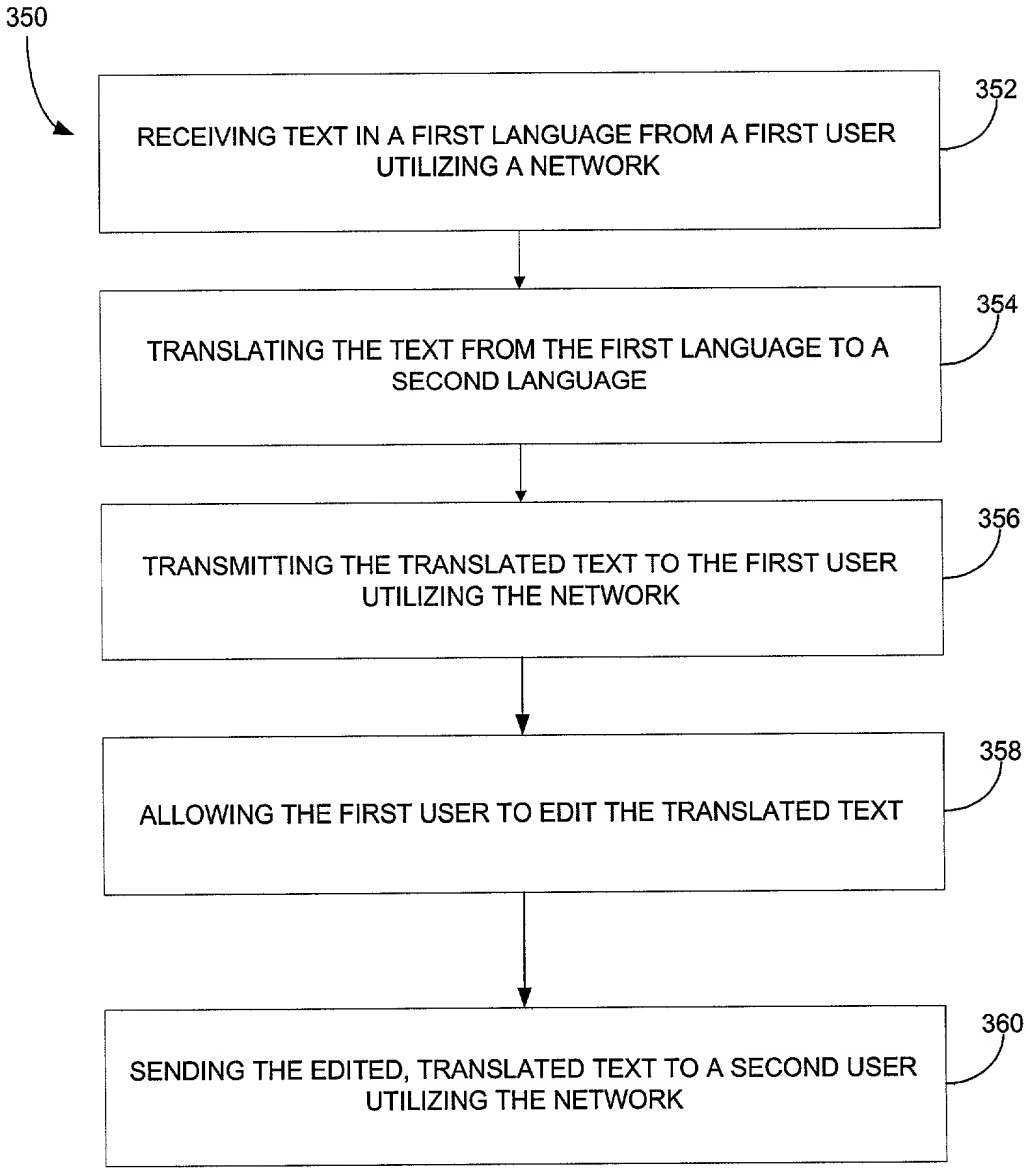

300
RECEIVING A PLURALITY OF DOCUMENTS WHICH INCLUDE INFORMATION REFLECTING SERVICES IN AN APPAREL SUPPLY CHAIN, WHEREIN THE DOCUMENTS ARE RECEIVED UTILIZING A NETWORK
302
TRANSLATING THE DOCUMENTS FOR THE PURPOSE OF THE PROCESSING THEREOF
304
OUTPUTTING THE PROCESSED DOCUMENTS TO THE APPAREL SUPPLY CHAIN UTILIZING THE NETWORK
306

Fig. 3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RECEIVING TEXT IN A FIRST LANGUAGE FROM A FIRST USER UTILIZING A NETWORK
352
TRANSLATING THE TEXT FROM THE FIRST LANGUAGE TO A SECOND LANGUAGE
354
TRANSMITTING THE TRANSLATED TEXT TO THE FIRST USER UTILIZING THE NETWORK
356
ALLOWING THE FIRST USER TO EDIT THE TRANSLATED TEXT
358
SENDING THE EDITED, TRANSLATED TEXT TO A SECOND USER UTILIZING THE NETWORK
360

Fig. 3a

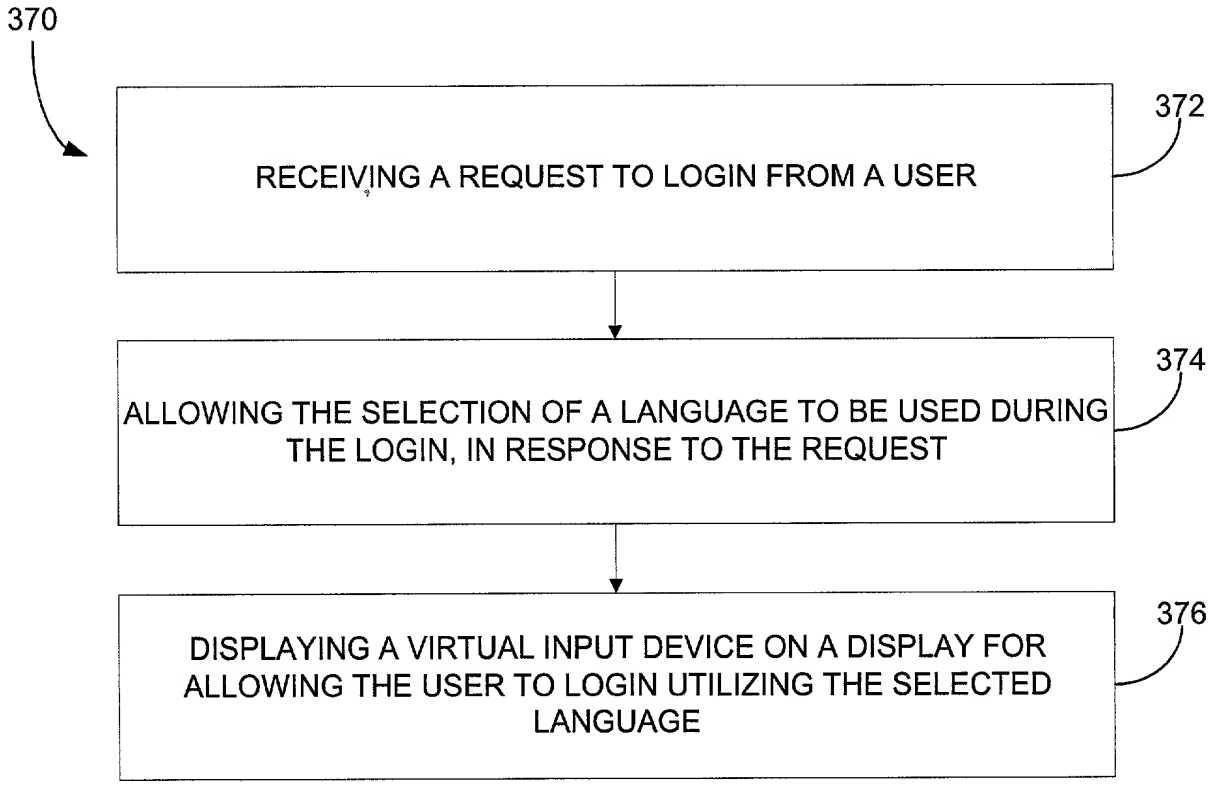
370
RECEIVING A REQUEST TO LOGIN FROM A USER
372
ALLOWING THE SELECTION OF A LANGUAGE TO BE USED DURING THE LOGIN, IN RESPONSE TO THE REQUEST
374
DISPLAYING A VIRTUAL INPUT DEVICE ON A DISPLAY FOR ALLOWING THE USER TO LOGIN UTILIZING THE SELECTED LANGUAGE
376

Fig. 3b

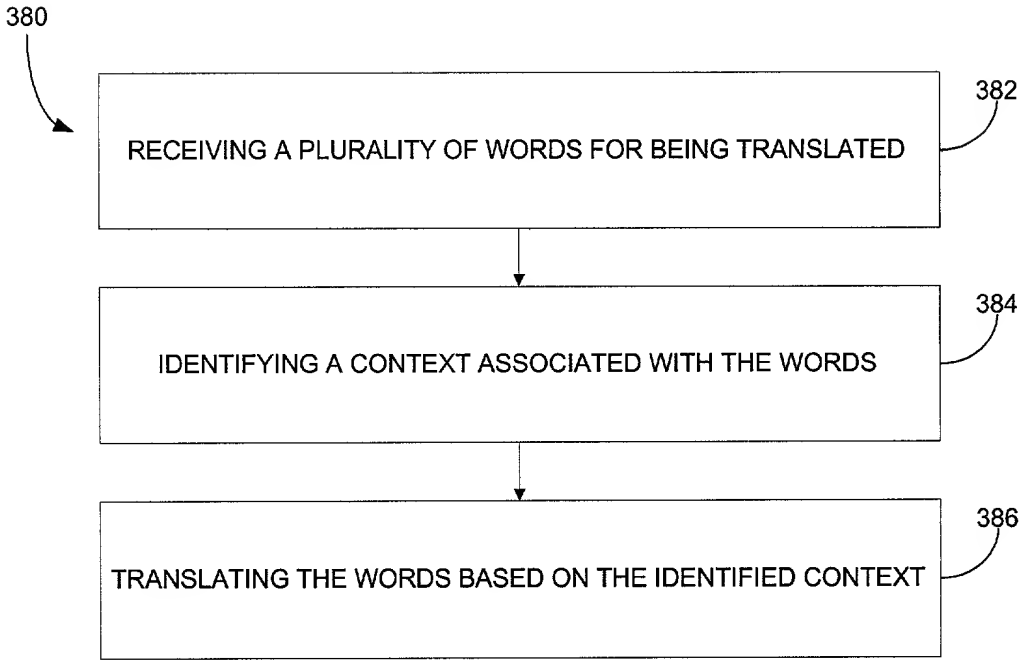
380
RECEIVING A PLURALITY OF WORDS FOR BEING TRANSLATED
382
IDENTIFYING A CONTEXT ASSOCIATED WITH THE WORDS
384
TRANSLATING THE WORDS BASED ON THE IDENTIFIED CONTEXT
386

Fig. 3c

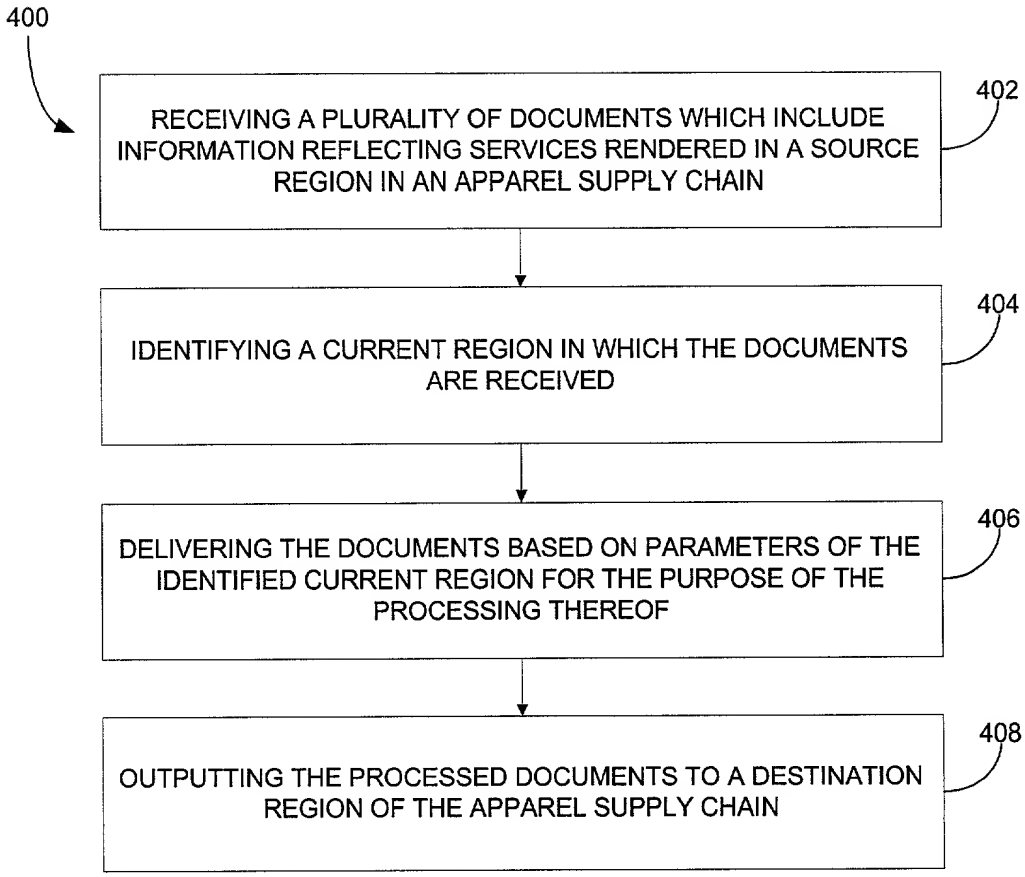
400
RECEIVING A PLURALITY OF DOCUMENTS WHICH INCLUDE INFORMATION REFLECTING SERVICES RENDERED IN A SOURCE REGION IN AN APPAREL SUPPLY CHAIN
402
IDENTIFYING A CURRENT REGION IN WHICH THE DOCUMENTS ARE RECEIVED
404
DELIVERING THE DOCUMENTS BASED ON PARAMETERS OF THE IDENTIFIED CURRENT REGION FOR THE PURPOSE OF THE PROCESSING THEREOF
406
OUTPUTTING THE PROCESSED DOCUMENTS TO A DESTINATION REGION OF THE APPAREL SUPPLY CHAIN
408

Fig. 4

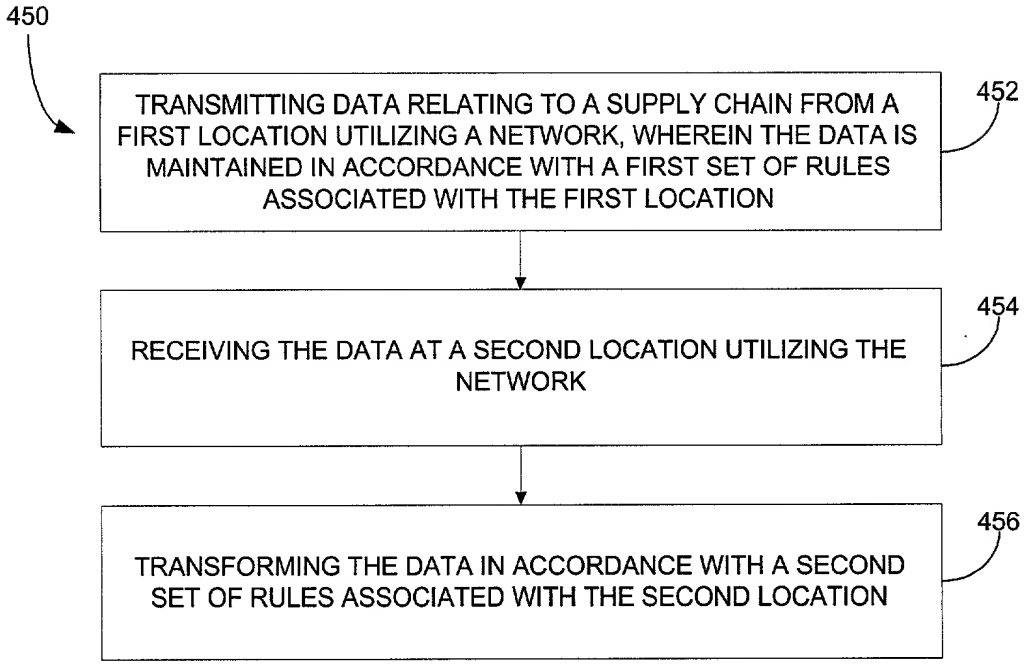
450
TRANSMITTING DATA RELATING TO A SUPPLY CHAIN FROM A FIRST LOCATION UTILIZING A NETWORK, WHEREIN THE DATA IS MAINTAINED IN ACCORDANCE WITH A FIRST SET OF RULES ASSOCIATED WITH THE FIRST LOCATION
452
RECEIVING THE DATA AT A SECOND LOCATION UTILIZING THE NETWORK
454
TRANSFORMING THE DATA IN ACCORDANCE WITH A SECOND SET OF RULES ASSOCIATED WITH THE SECOND LOCATION
456

Fig. 4a

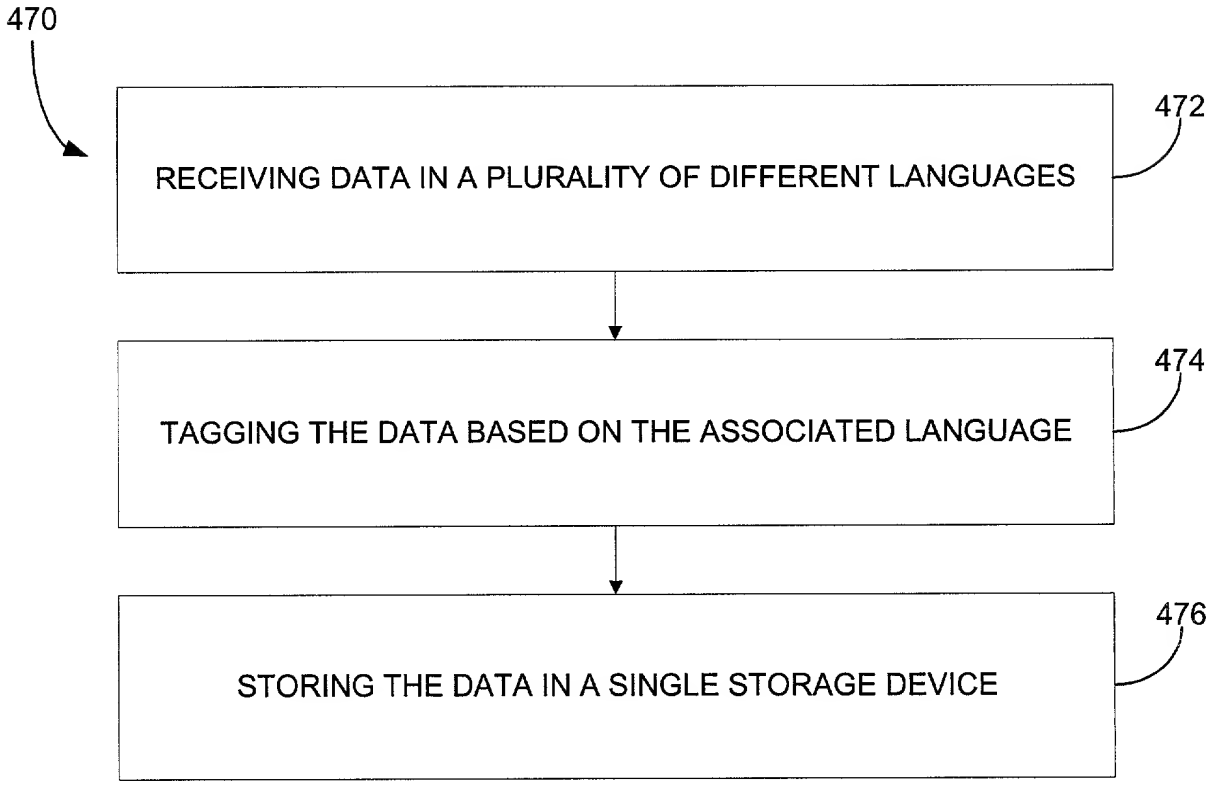
470
RECEIVING DATA IN A PLURALITY OF DIFFERENT LANGUAGES
472
TAGGING THE DATA BASED ON THE ASSOCIATED LANGUAGE
474
STORING THE DATA IN A SINGLE STORAGE DEVICE
476

Fig. 4b

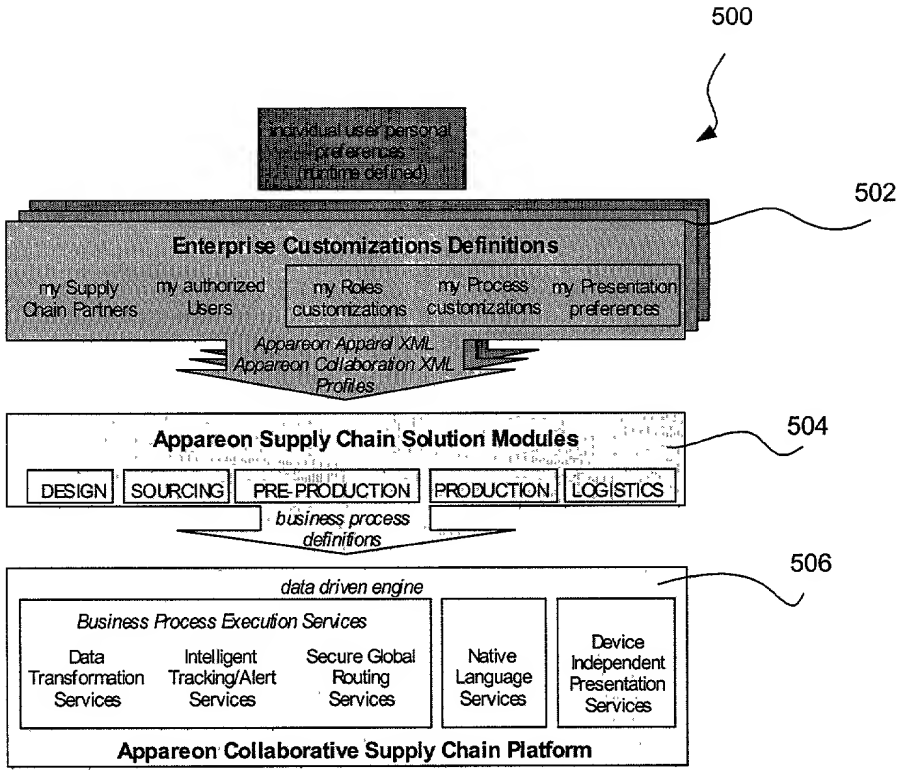
500
individual user personal preferences (runtime defined)
502
Enterprise Customizations Definitions
my Supply Chain Partners
my authorized Users
my Roles customizations
my Process customizations
my Presentation preferences
Appareon Apparel XML
Appareon Collaboration XML
Profiles
504
Appareon Supply Chain Solution Modules
DESIGN
SOURCING
PRE-PRODUCTION
PRODUCTION
LOGISTICS
business process definitions
506
data driven engine
Business Process Execution Services
Data Transformation Services
Intelligent Tracking/Alert Services
Secure Global Routing Services
Native Language Services
Device Independent Presentation Services
Appareon Collaborative Supply Chain Platform

Fig. 5a

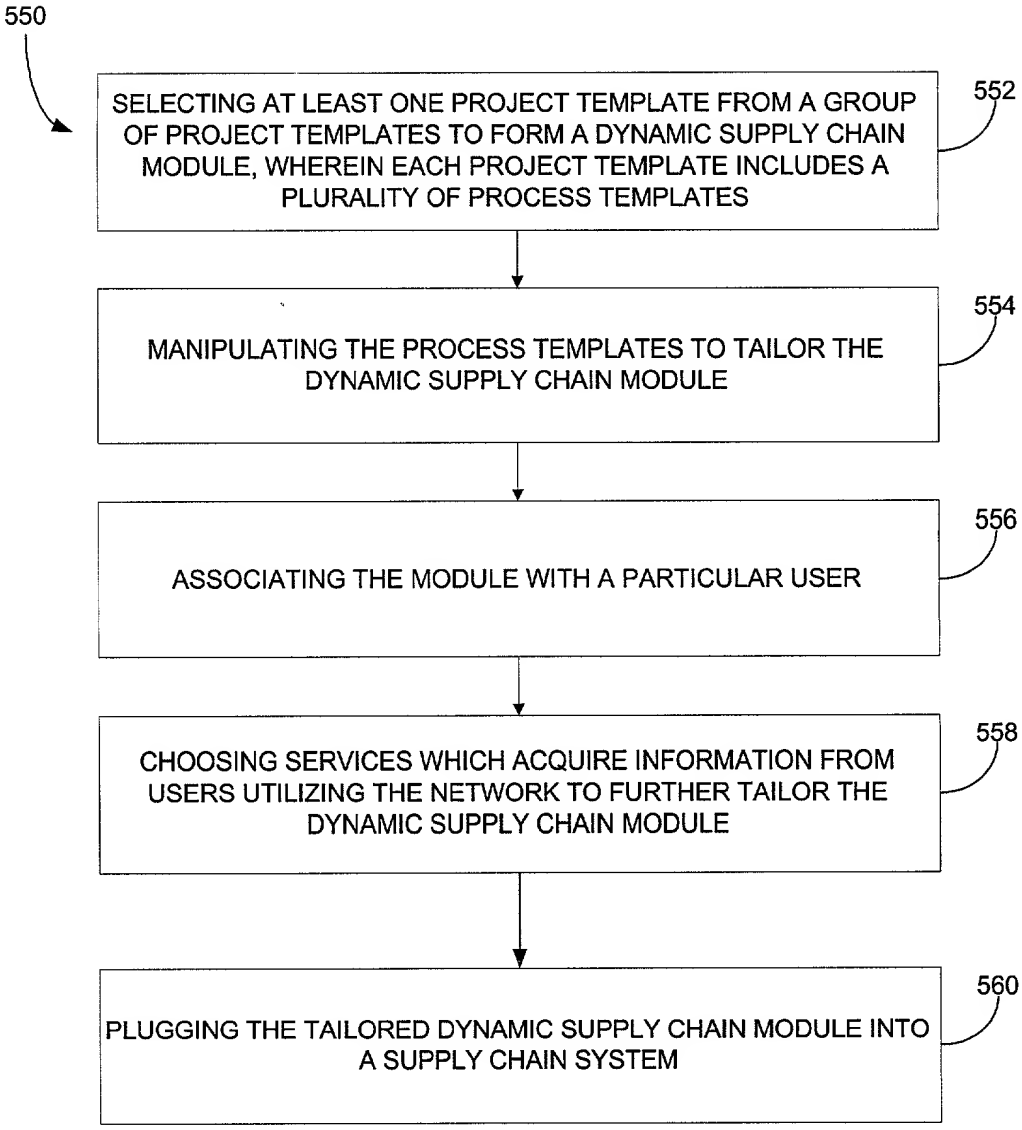
550
SELECTING AT LEAST ONE PROJECT TEMPLATE FROM A GROUP OF PROJECT TEMPLATES TO FORM A DYNAMIC SUPPLY CHAIN MODULE, WHEREIN EACH PROJECT TEMPLATE INCLUDES A PLURALITY OF PROCESS TEMPLATES
552
MANIPULATING THE PROCESS TEMPLATES TO TAILOR THE DYNAMIC SUPPLY CHAIN MODULE
554
ASSOCIATING THE MODULE WITH A PARTICULAR USER
556
CHOOSING SERVICES WHICH ACQUIRE INFORMATION FROM USERS UTILIZING THE NETWORK TO FURTHER TAILOR THE DYNAMIC SUPPLY CHAIN MODULE
558
PLUGGING THE TAILORED DYNAMIC SUPPLY CHAIN MODULE INTO A SUPPLY CHAIN SYSTEM
560

Fig. 5b

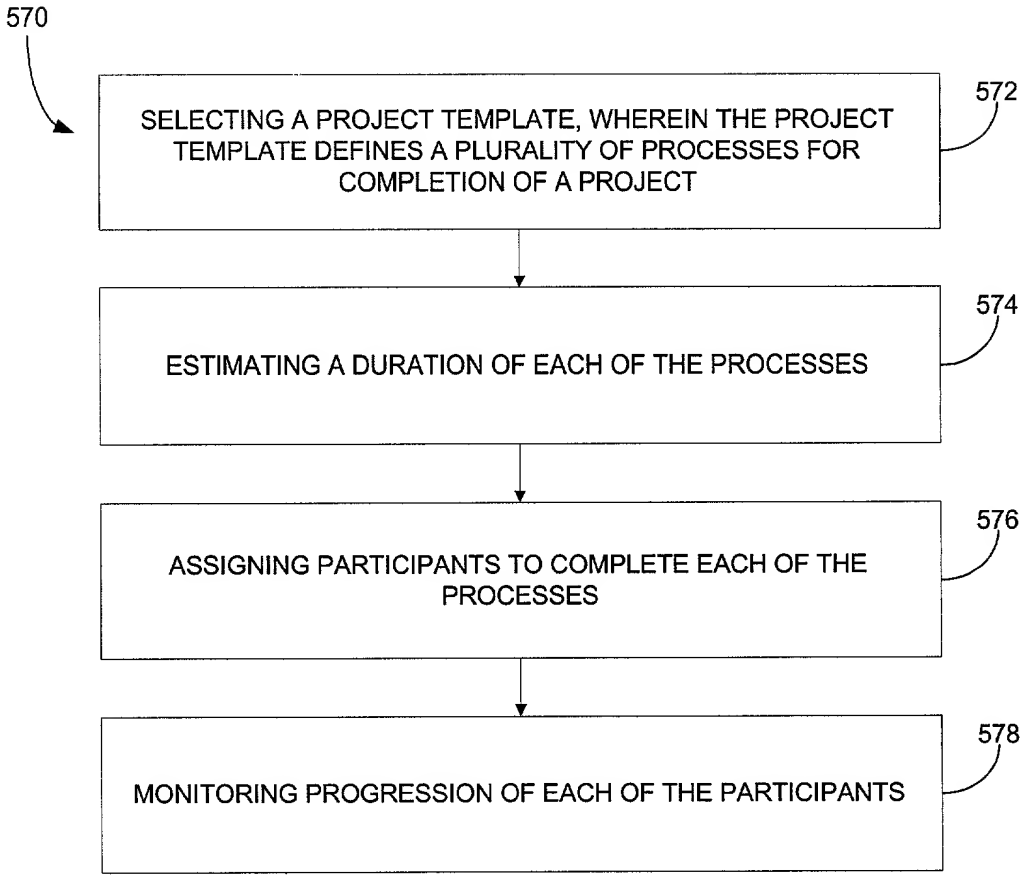
570
SELECTING A PROJECT TEMPLATE, WHEREIN THE PROJECT TEMPLATE DEFINES A PLURALITY OF PROCESSES FOR COMPLETION OF A PROJECT
572
ESTIMATING A DURATION OF EACH OF THE PROCESSES
574
ASSIGNING PARTICIPANTS TO COMPLETE EACH OF THE PROCESSES
576
MONITORING PROGRESSION OF EACH OF THE PARTICIPANTS
578

Fig. 5c

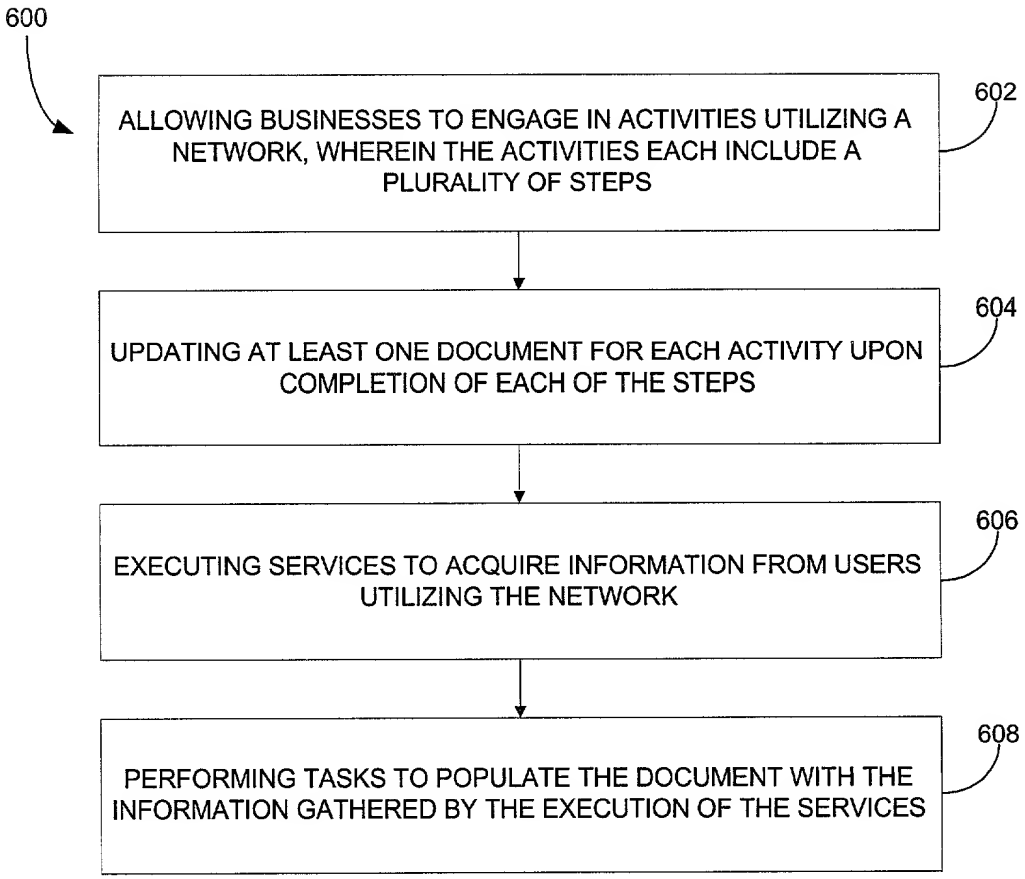
600
ALLOWING BUSINESSES TO ENGAGE IN ACTIVITIES UTILIZING A NETWORK, WHEREIN THE ACTIVITIES EACH INCLUDE A PLURALITY OF STEPS
602
UPDATING AT LEAST ONE DOCUMENT FOR EACH ACTIVITY UPON COMPLETION OF EACH OF THE STEPS
604
EXECUTING SERVICES TO ACQUIRE INFORMATION FROM USERS UTILIZING THE NETWORK
606
PERFORMING TASKS TO POPULATE THE DOCUMENT WITH THE INFORMATION GATHERED BY THE EXECUTION OF THE SERVICES
608

Fig. 6a

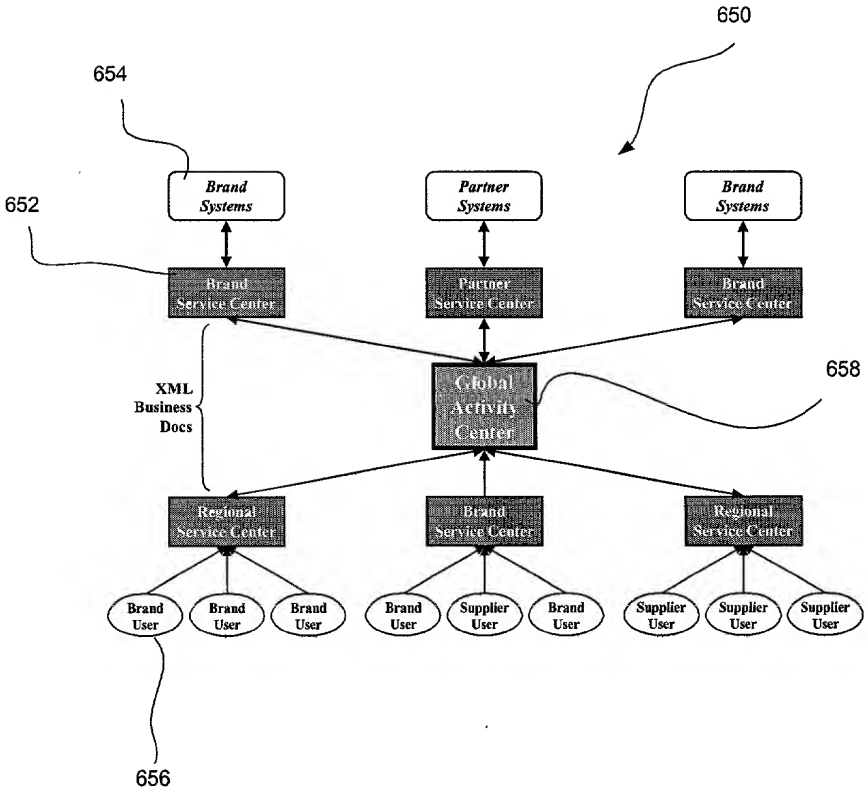
650
654
652
Brand Systems
Partner Systems
Brand Systems
Brand Service Center
Partner Service Center
Brand Service Center
XML Business Docs
Global Activity Center
658
Regional Service Center
Brand Service Center
Regional Service Center
Brand User
Brand User
Brand User
Brand User
Supplier User
Brand User
Supplier User
Supplier User
Supplier User
656

Fig. 6b

700

Abstraction Level	Action	Output	Type of State	Example
Activity	Conduct	Economic Exchange	Business	Source Prodcution
Service	Utilize	Business Document	Transactional	Respond to RFQ
Task	Execute	User Input	Conversational	Select Material

Fig. 7

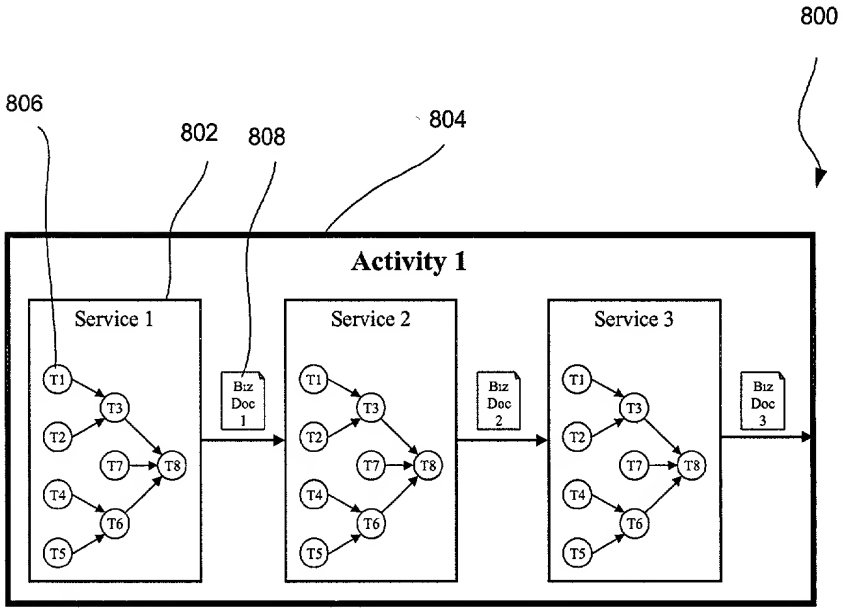

Fig. 8

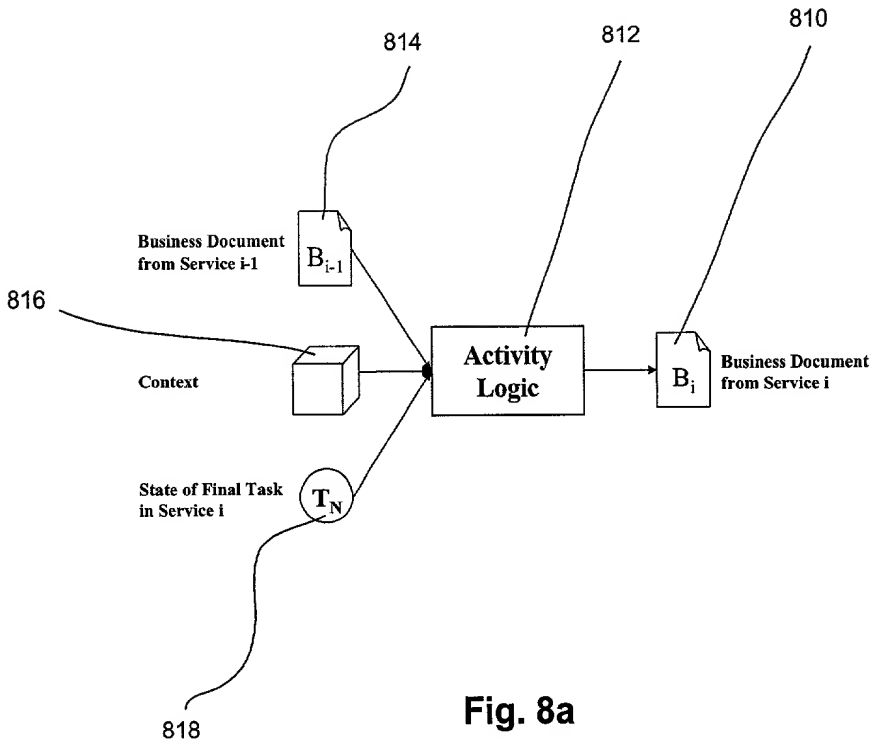
814
812
810
Business Document from Service i-1
B_{i-1}
816
Context
Activity Logic
B_i
Business Document from Service i
State of Final Task in Service i
T_N
818

Fig. 8a

850

Document Category	Purpose	Working Store	Examples
Collaboration Docs	Represent the exchange of business information among trading partners	DB of Record Master Doc Store	Quote Purchase Order
Service Docs	Represent the contribution of a trading partner to a collaboration	Local Doc Store	Service State Structure
Presentation Docs	Represent the layout of a user interface	Local Doc Store	HTML Template Widget Transform
Control Docs	Control the execution of the Collaboration, Conversation, and Presentation Managers	Local Doc Store Master Doc Store	Routing Rules Service Definition
System Docs	Maintain consistent state across all distributed system nodes	DB of Record Master Doc Store	Update Data Order Get Doc Request

Fig. 8b

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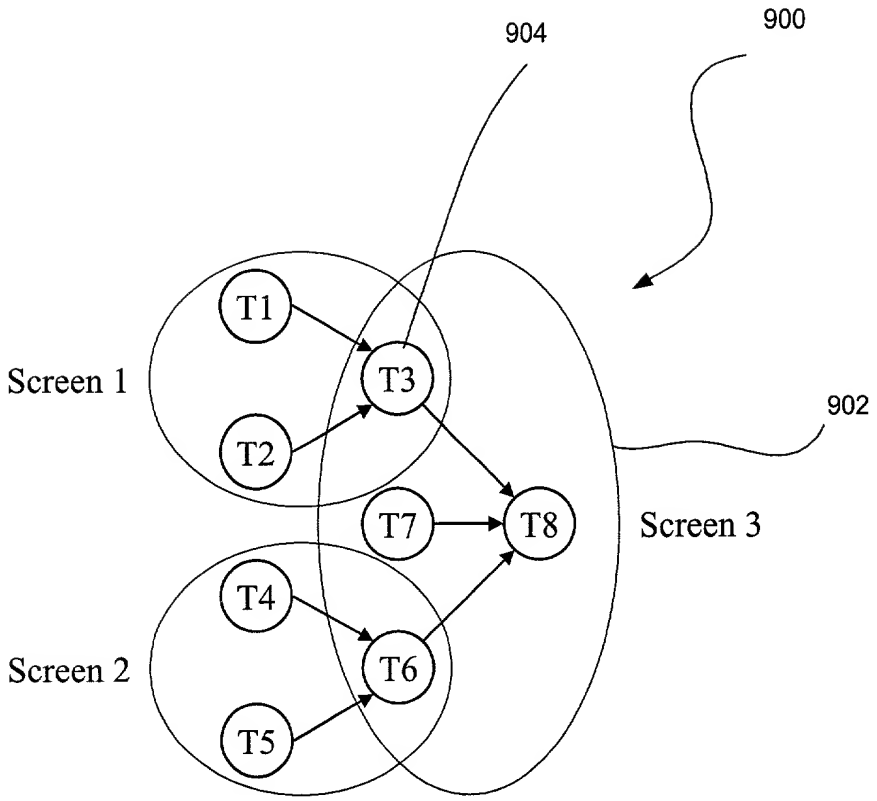

Fig. 9

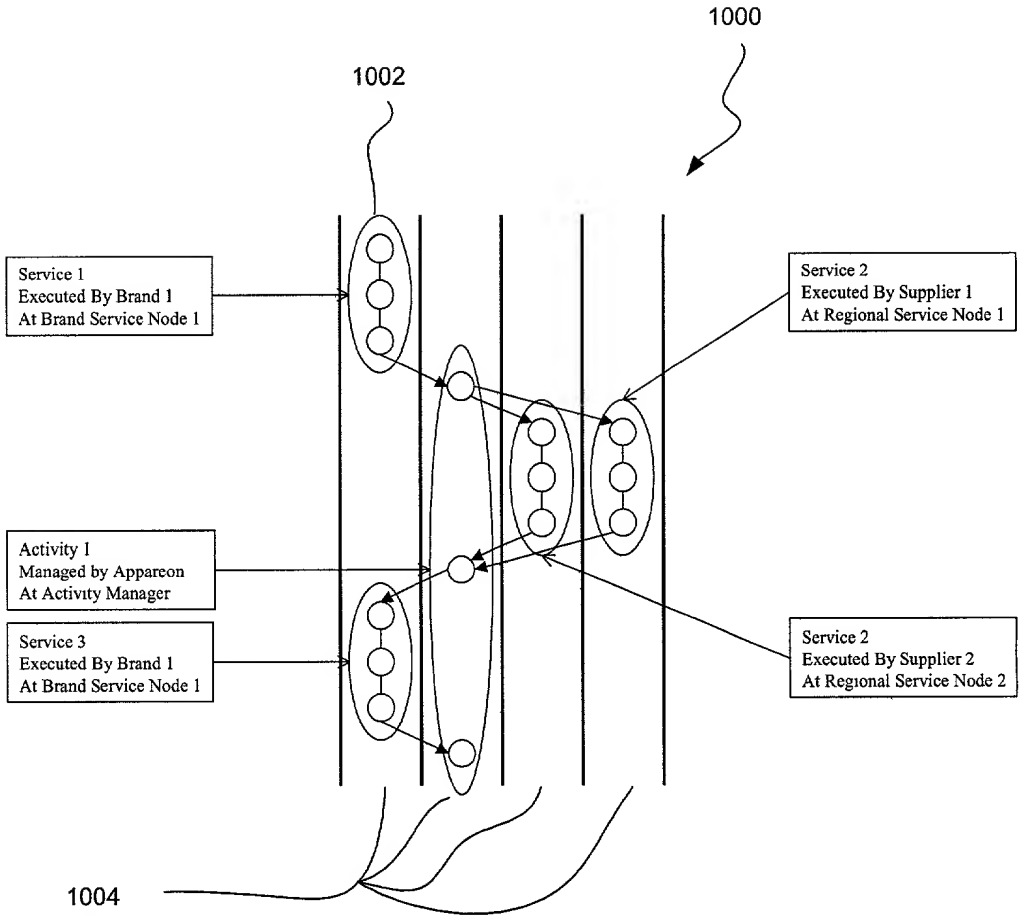
1000
1002
Service 1
Executed By Brand 1
At Brand Service Node 1
Service 2
Executed By Supplier 1
At Regional Service Node 1
Activity I
Managed by Appareon
At Activity Manager
Service 3
Executed By Brand 1
At Brand Service Node 1
Service 2
Executed By Supplier 2
At Regional Service Node 2
1004

Fig. 10

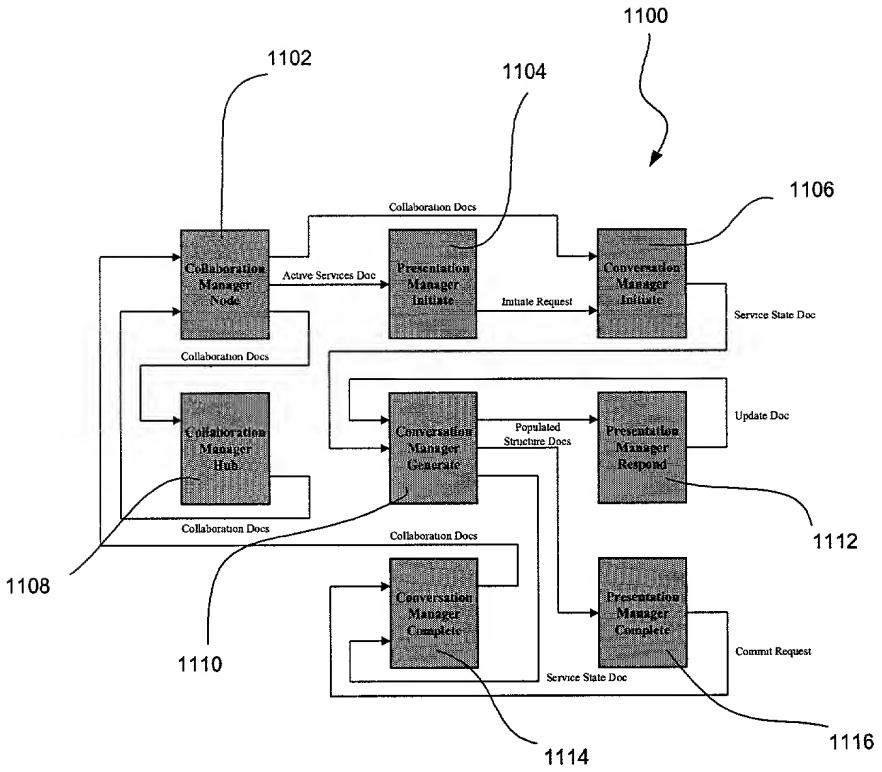
1100
1102
1104
1106
Collaboration Manager Node
Active Services Doc
Presentation Manager Initiate
Initiate Request
Conversation Manager Initiate
Collaboration Docs
Service State Doc
Collaboration Docs
Collaboration Manager Hub
Conversation Manager Generate
Populated Structure Docs
Presentation Manager Respond
Update Doc
1112
Collaboration Docs
Collaboration Docs
1108
1110
Conversation Manager Complete
Presentation Manager Complete
Commit Request
Service State Doc
1114
1116

Fig. 11

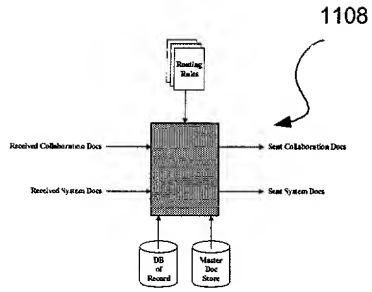

Fig. 12

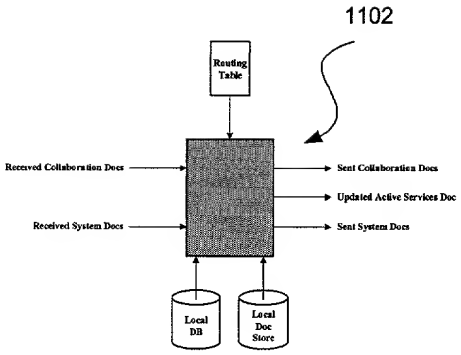

Fig. 13

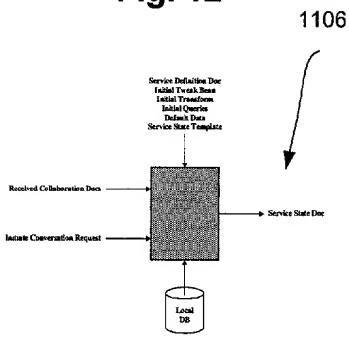

Fig. 14

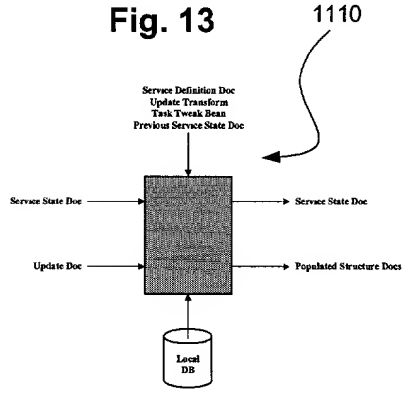

Fig. 15

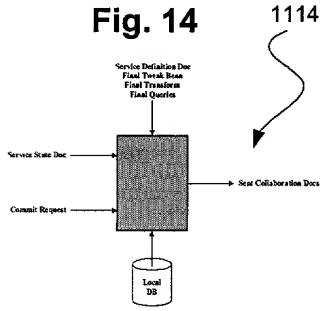

Fig. 16

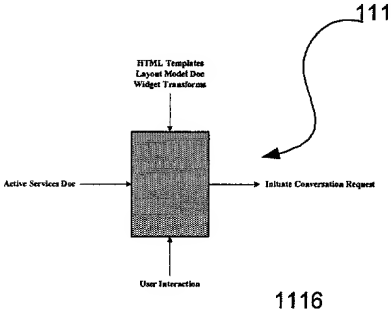

Fig. 17

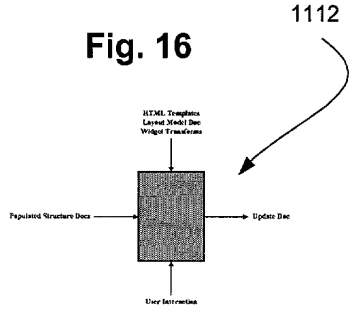

Fig. 18

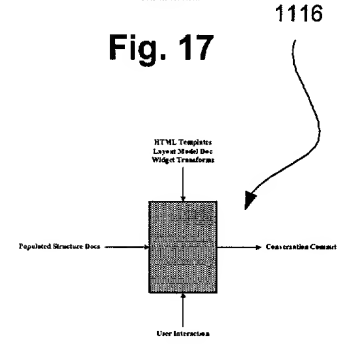

Fig. 19

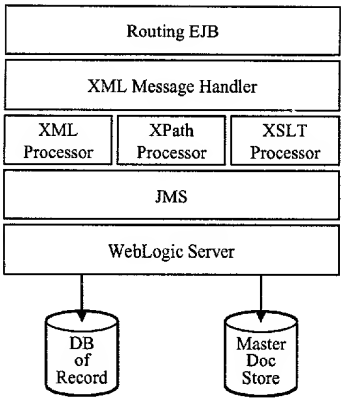

Fig. 20

1108

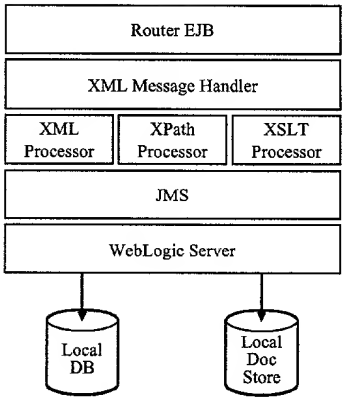

Fig. 21

1102

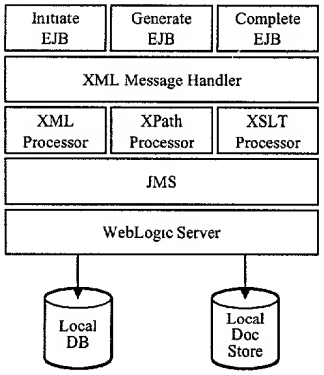

Fig. 22

1106, 1114

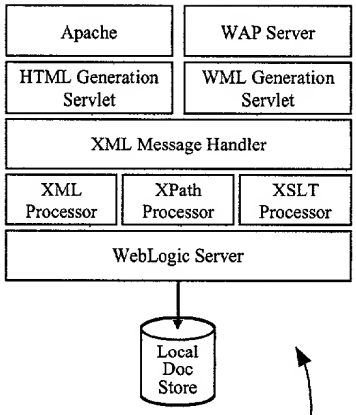

Fig. 23

1104, 1116